



Insulation and R-value

Vinyl Cladding, when combined with additional insulation solutions, can significantly boost a building's energy efficiency by increasing its overall R-value.

Foam insulation

Polystyrene foam is a lightweight, cost effective form of insulation. When installed with vinyl cladding in accordance with Australian Standards, it can deliver energy savings. Adding a Standard or Premium foam backing increases insulation and reduces indoor temperature fluctuations. This helps keep houses cooler in summer and warmer in winter, reducing the amount of power required for heating and cooling. The result is lower energy bills, improved comfort and a smaller carbon footprint.

Insulation wrap

Trapped air is one of the most effective natural insulators, provided it remains still. This principal is used in double glazed windows and Thermos® flasks. When insulated vinyl cladding is correctly installed over existing timber, fibre cement walls or on a new framework with an underlay, it creates an air gap that acts as an excellent insulator. Adding a wall wrap underlay such as **Sisalation** or Tyvek will further boost thermal performance.

R-value

The recommended installation of foam backed vinyl cladding over a framework with an underlay of plywood or fibre cement sheeting – and an air gap created by 90mm framing – achieves an R-value of approximately 1.5. This R-value can be further increased with the addition of in-wall insulation such as fibreglass batts and a sisalation wrap. An R-value of 3.0 should easily be achieved if these principles are adhered and installed to Australian Standards.

Environmental

One of the great advantages of foam-backed insulated vinyl cladding is the ability to add a layer of insulation to the entire home without the need for demolition or reconstruction. This improvement enhances comfort and reduces energy use, contributing to long-term sustainability – good news for both homeowners and the planet.



Products

Duratuff vinyl cladding
Duratech vinyl cladding
Cambridge vinyl cladding
Cedarline vinyl cladding
Vertical vinyl cladding

Brands



Find out more about [vinyl cladding insulation and R-value](#).



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